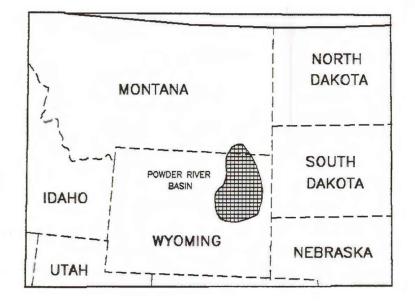


By James E. Fox and Debra K. Higley

1987

Scale 1:500,000

Contour interval 500 feet



Location of the Powder River basin

TERTIARY	PALEO.	WEST EAST						
TE		LEBO S			SHALE MBR.		F NON	
					LANCE FM.	Lucus		
		FOX HILLS SS.			FOX HILLS SS.			
UPPER					TOA HILLOGO,			
		TECKLA SS. MBR. LEWIS SH.						
		S 64			DIEDDE OU			
					PIERRE SH.			
		SUSSEX SS. MBR.						
		SHANNON SS. MBR. STEELE SH.						
\supset	RE	NIOBRARA MBR.			NIOBRARA FM			
			SAGE BREAKS MBR.		CARLILE SH.	SAGE BREAKS MBR TURNER SANDY MB POOL CREEK MBR		
		œ	WALL CREEK MBR.					
		FRONTIER FM.	В			EENHORNE		
		RO	"2nd WALL CREEK SAND"		DELLE POUROUS OF			
		-	BE	LLE FOURCHE MBR.	BELLE FOURCHE SH.			
				MOWRY SH.	MOWRY SH			
SNS		_	_	MUDDY SS.	NEWCASTLE SS.			
EB	SEC	THERMOPOLIS SH			SKULL CREEK SH.			
LOWER	CRETACEOUS	z		FALL	RIVER SS.	ER SS.		
H		NYA	GP		OTA FM		INYAN	
	O	C C C C C C C C C C C C C C C C C C C						
		MORRISON FM.			MORRISON FM.			
		FM.	"UF	PER SUNDANCE" REDWATER SH. MBR			TOTAL	
(2				PINE BUTTE MBR.			
C	3	NCE	"LC	WER SUNDANCE"	LAK MBR.	LAK MBR.		
JURASSIC		SUNDANCE			STOCKADE BEAVER SH. MBR.			
		SUN			CANYON SPRINGS SS MBR.			
		THE	tur.	GYPSIM	SPRING FM.			
_	?	TT	III		THITTITI	HIHITI	THITTIN TO	
		GPL	1					
			A	GIE FM.				
5	2	CHUGWATER	CF	ROW MTN. SS.			Щ	
TRIASSIC		JGW.		COVA LS	SPEARFISH FM			
		문	R	D PEAK FM.				
			11	TTLE MEDICINE LS.				
				MBR.				
		FM		REEZEOUT SH MBR	Cours ou succes			
		GG	=	RVAY MBR.	PINE S	ALT MBR		
Z		SE E		IFFICULTY SH MBR.		1510		
PERMIAN		GOOSE EGG FM.		ENDO SH MBR.			7	
H	1	0	-	INNEKAHTA LS. MBR.		MINNEKAHTA LS.		
۵				PECHE SH. MBR. OPECHE SH.				
			M					
10		Ш	للهلا	July House				
3YL	7	TENSLEEEP SS				L		
N	N A	TEMOLLEL SO			MINNELUSA FM			
PENNSYL- VANIAN				ASDEN FM. AND				
-		CORRELATIVES			The state of the s			
	z		مرسد مداحد احداد المداحد احداد		المراسية المراسية المراسية المراسية			
MISSIS- SIPPIAN (part)		MADISON LS			MADISON LS			

Generalized stratigraphic column in the Powder River basin

EXPLANATION



Borehole. Number is elevation in feet.



Elevation of mapped interval in feet.

Structure values were not corrected nor labeled as anomalous in wells with inclination of beds, faulting, or problems of hole deviation. Such occasional conditions are more likely to occur in the southeast portion of the map and along deformed margins of the basin.



Generalized outcrop of the Upper Cretaceous Lance Formation and Fox Hills Sandstone, undivided.



Generalized outcrop of the Upper Cretaceous Fox Hills Sandstone.

Data from which this map was constructed are stored in a database of formation tops and bases determined from electric logs of 186 wells penetrating Upper Cretaceous and older rocks. These logs are shown in 22 cross sections of the Powder River basin by James E. Fox, 1986 (U.S. Geological Survey Open—File Reports OF 86—465A through OF 86—465V). The map was produced by using the Interactive Surface Modeling (ISM) program of Dynamic Graphics, Inc. Values at some of the data localities may not be as closely honored as on a hand—contoured map because of the mathematical constraints of the mapping program.

This map is prepared in part for the Evolution of Sedimentary Basins program.

1 Any use of trade names is for descriptive purposes and does not imply endorsement by the U.S. Geological Survey.

This map is preliminary and has not been edited or reviewed for conformity with Geological Survey standards.